Instructions

G3 Stirring Paddle Replacement Kit

3A0535G

EN

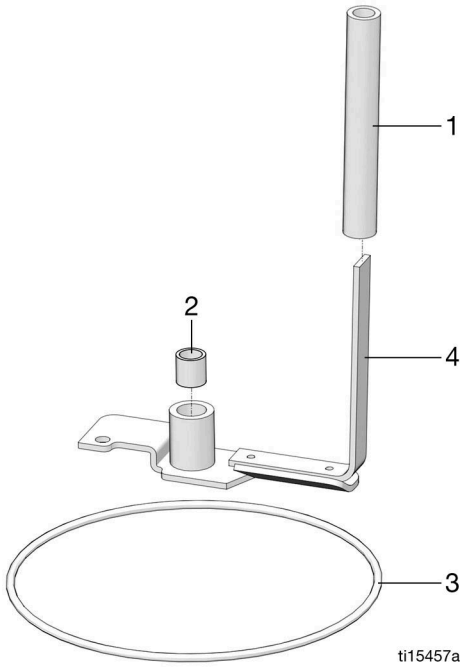
For replacing stirring paddle. For professional use only.

Not approved for use in explosive atmospheres or hazardous (classified) locations.

Part Numbers: 571044, 571045, 571046, 571047

Important Safety Instructions

Read all warnings and instructions in this manual before using the equipment. Be familiar with the proper control and usage of the equipment. Save these instructions.



Parts Included in Kit

Ref.	Description	Qty.
1	Wiper, stirring	1
2	Bearing, sleeve	1
3	O-Ring	1
4	Paddle, stirring	1

Safety Symbols

The following safety symbols appear throughout this manual and on warning labels. Read the table below to understand what each symbol means.

Symbol	Meaning
	Skin Injection Hazard
	Read Manual
	Follow Pressure Relief Procedure

Safety Alert Symbol
This symbol indicates: Attention! Become Alert! Look for this symbol throughout the manual to indicate important safety messages.

Installation

Pressure Relief Procedure

⚠WARNING

Skin Injection Hazard

High pressure fluid from dispense device, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

Follow the Pressure Relief Procedure in this manual when a dispense is stopped or before equipment is cleaned, checked, or serviced,

Relieve pressure in the system using two wrenches working in opposite directions on pump element and pump element fitting to only loosen the fitting.

NOTICE

To prevent changing the output volume, when loosening the pump element fitting do not loosen the pump element.

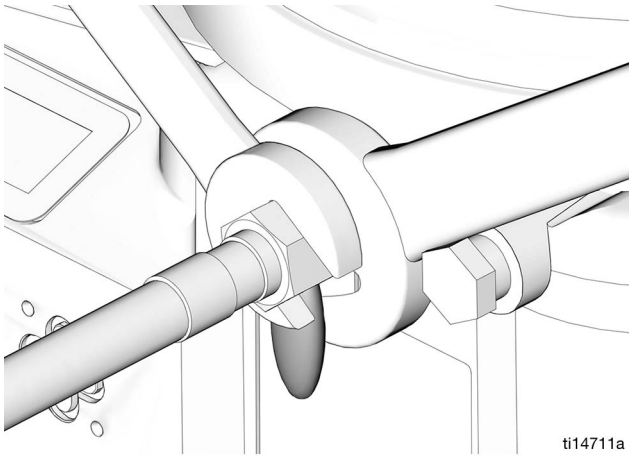


FIG. 1

Instructions

The reference numbers in this section refer to **Parts Included in Kit**, page 1. Reference letters in this section refer to user-provided, installed components or locations necessary to complete these instructions.

Disassembly

NOTE: Unless otherwise noted, all illustrations show 2 L pump models.

1. Disconnect power supply to the system.
2. Relieve pressure following **Pressure Relief Procedure**, page 3.
3. For 2 L models: Use a strap wrench around the reservoir (A) and turn the reservoir counter-clockwise one quarter of a turn (FIG. 2).

   For 4 L or larger models: Position the strap wrench around the lower portion of the reservoir and turn the reservoir counter-clockwise approximately two full turns until it is loose enough to remove from the reservoir adapter (P).

NOTE: For removal of 4 L or larger reservoirs, use special tool 133410 to prevent adapter ring rotation when turning the reservoir. The tool is installed with two sets of fasteners to the back of the pump, as shown in FIG. 2.

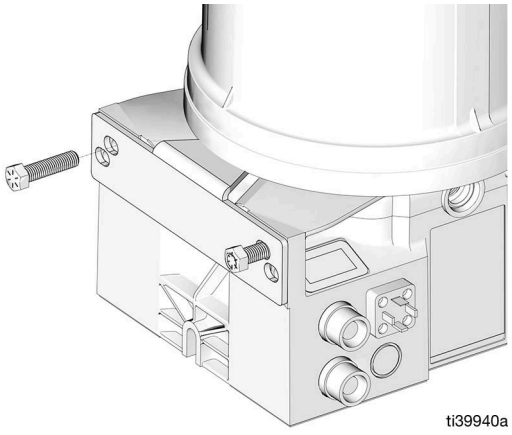


FIG. 2

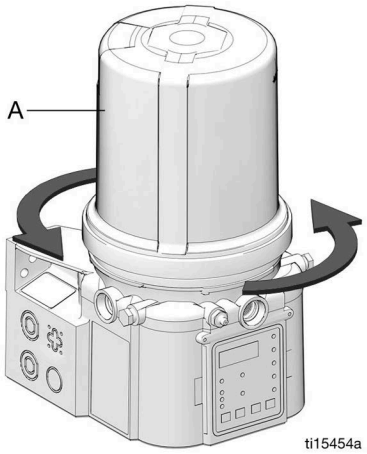
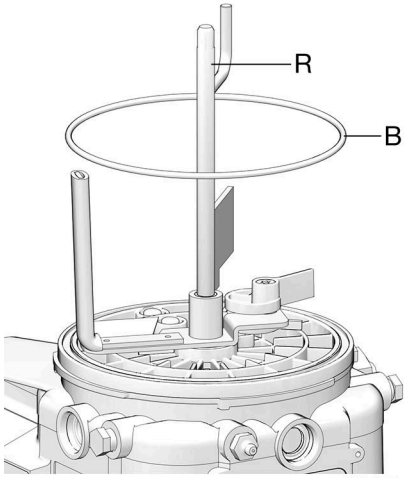


FIG. 3

4. Remove the reservoir (A), rod (R), and the o-ring (B), then discard the o-ring (B) (FIG. 4).

2 Liter Models



4 Liter and Larger Models

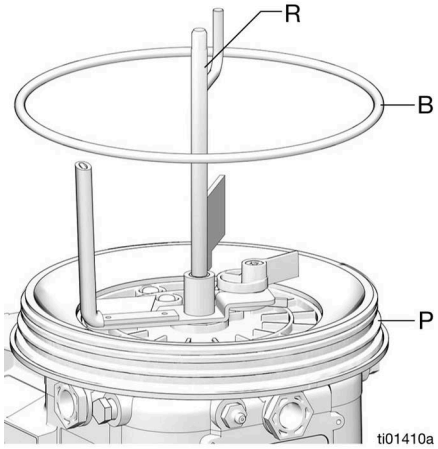


FIG. 4

5. Steps 5a - 5c are for G3 pumps with a follower plate only. If not needed, go to Step 6.

   a. Verify that the following parts were removed with the reservoir (FIG. 5):
   Spring (S)
   Follower Plate (FP)
   Follower Plate Seal (FPS)
   Rod (R)

NOTE: If the reservoir (A) and the reservoir adapter (P) were not separated, the follower plate components may be inside.

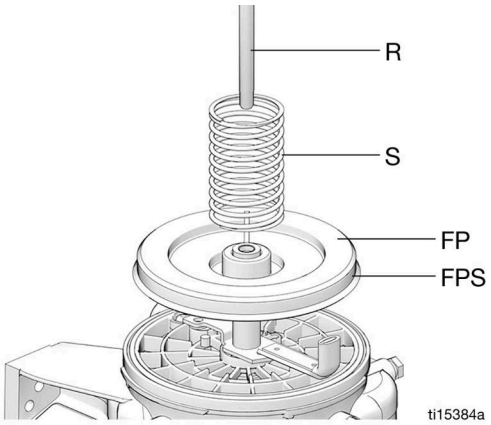


FIG. 5

   b. Be sure that the parts that remain in the reservoir were removed, if possible, for reuse at reassembly.

   c. Examine the follower plate seal (FPS) for any wear or damage. If damaged, replace (P/N 278139). Contact customer service or your local distributor to order this part.

NOTE: For models that include a low level paddle or a follower plate, when the stirring paddle is removed from the G3 pump base, make sure the bearing (2) does not fall into the unit.

6. For all installations, turn the paddle (D) clockwise to loosen and remove from the G3 pump base (FIG. 6). (Illustration does not show low level paddle.)

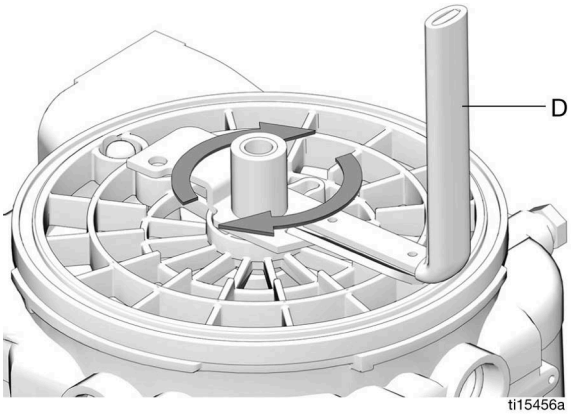


FIG. 6

7. Steps 7a - 7b are for G3 pumps with a low level paddle (E) only. If not needed, continue to Step 8.

   a. Remove the bolt (F) and washers (G) that hold the low level paddle (E) to the stirring paddle (D). Separate these parts from the stirring paddle (4). Keep the bolt (F) and washers (G) for reassembly (FIG. 7).

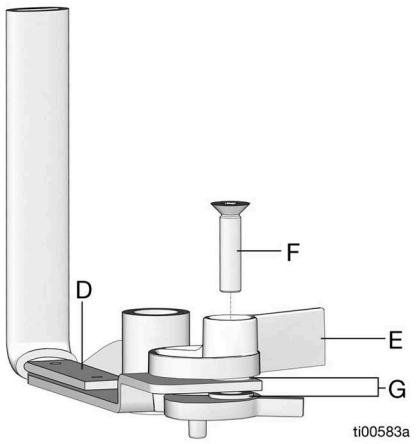


FIG. 7

   b. Examine the low level paddle (E). If it is undamaged, it can be reused. If damaged, replace (P/N 279043). Contact Graco customer service to order this part.

8. For all installations, discard the old stirring paddle (D), it is not reused.

Reassembly

NOTE: Always use new parts from the kit, when available.

1. Slide the wiper (1) over the stirring paddle arm (4a) on the stirring paddle (4) (FIG. 8).

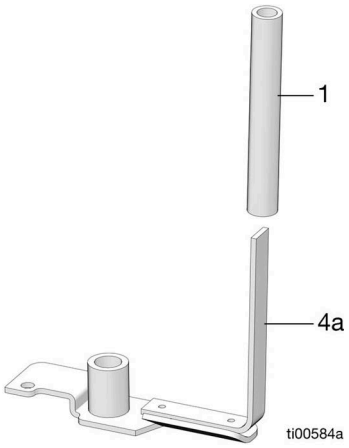


FIG. 8

2. Steps 3a - 3g are for G3 pumps with a low level paddle only. If not needed, continue to Step 3.

NOTE: Low level paddle replacement (P/N 279043) is a new style that does not require the use of washers (G) because of reduced slot/gap.

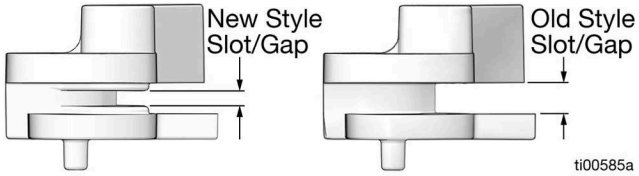


FIG. 9

Assemble the low level paddle (E) to the stirring paddle (4):

   a. Align the washers (G) with the hole in the base (H) of the stirring paddle (4). One of the washers should be above the hole and one should be beneath the hole (FIG. 10).

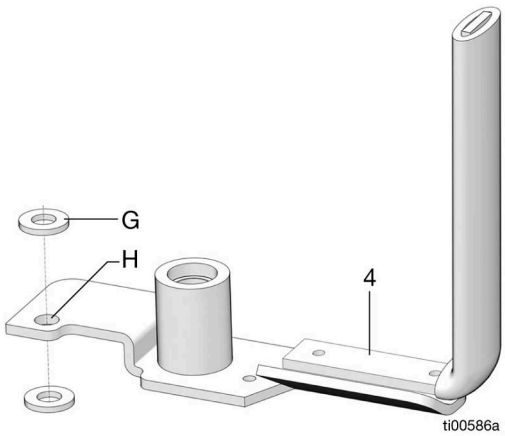


FIG. 10

b. Examine the low level paddle (E). It has a slot/gap on one side.

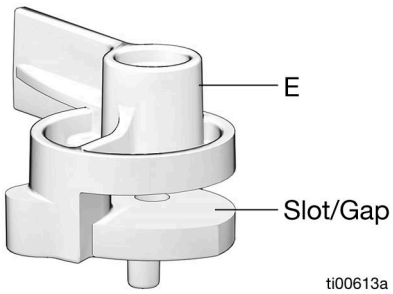


FIG. 11

c. To assemble the low level paddle (E) to the stirring paddle (4), slide the stirring paddle (4) and the washers (G) into the slot/gap (FIG. 12).

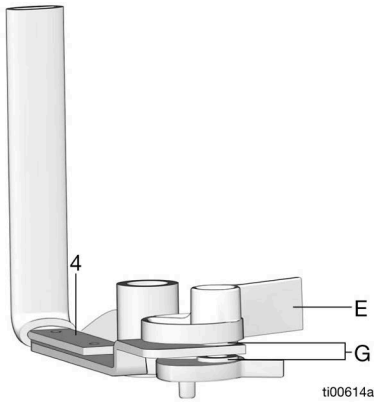


FIG. 12

d. Align the hole (J) in the top of the low level paddle (E) with the hole in the center of the washers (G) and in the stirring paddle (4) (FIG. 13).

e. Insert the bolt (F) through the low level paddle (E), the holes in the washers (G), and the hole in the base of the stirring paddle (E) (FIG. 13).

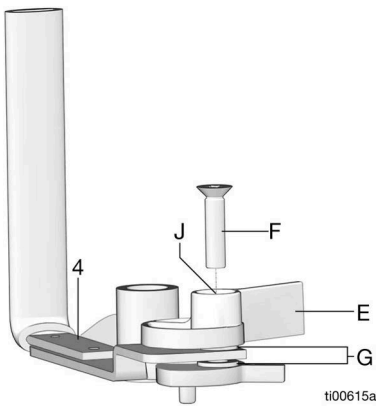


FIG. 13

f. Use a screwdriver to tighten the bolt (F). Torque to 4.0 in-lb (0.45 N•m). The bolt should be tight enough to hold the low level paddle (E) securely in place and allows the paddle (4) to move freely back and forth. The bolt should not protrude from the bottom of the low level paddle (E).

NOTE: Over tightening the bolt (F) causes the low level paddle (E) to not function.

g. Install bearing (2) into the stirring paddle (4) (FIG. 14).

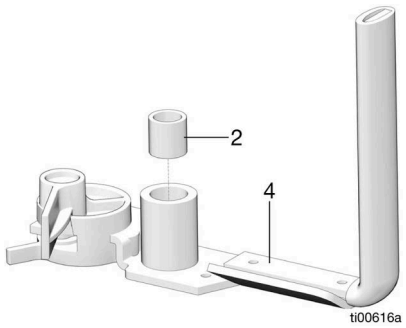


FIG. 14

3. Install the stirring paddle (4) into the base of the G3 pump, turn the paddle (4) counter-clockwise until it is securely in place (FIG. 15). (Illustration does not show low level paddle.)

NOTE: If a low level paddle (E) is installed, hold the low level paddle (E) in the full out position during installation of the stirring paddle (4) to prevent damage.

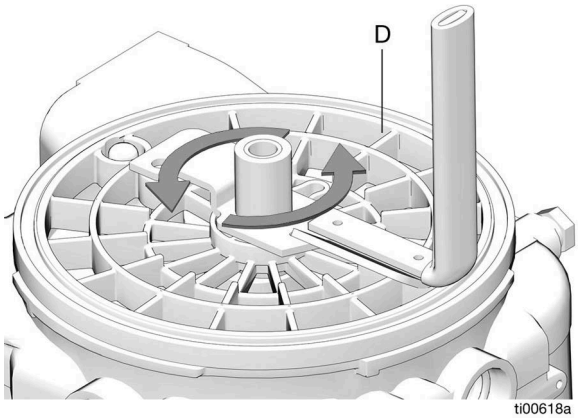


FIG. 15

4. Steps 5a - 5g are for G3 pumps with a follower plate only. If not needed, continue to **Reservoir Installation (2 L Models)** or **Reservoir Installation (4 L and Larger Models)** .

   a. Verify that the low level paddle (E) is in the full out position (FIG. 16).

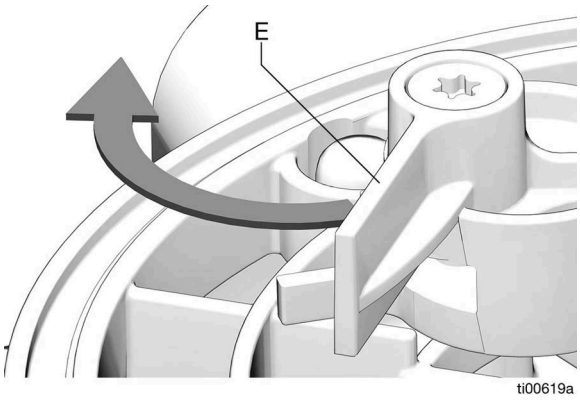


FIG. 16

   b. Install the follower plate (FP) onto the stirring paddle (4). Make sure that the seal (FPS) is facing down, toward the ricer plate (FIG. 17).

   c. Install the spring (S) into the spring pocket (K).

   d. Install the rod (R) into the reservoir (A).

   e. Slide the rod (R) through the center of the spring (S) and follower plate (FP).

   f. Seat the spring (S) in the spring pocket in the top of the reservoir (A).

   g. Compress the spring (S) to install the reservoir (A). See **Reservoir Installation (2 L Models)**, page 7, or **Reservoir Installation (4 L and Larger Models)**, page 8.

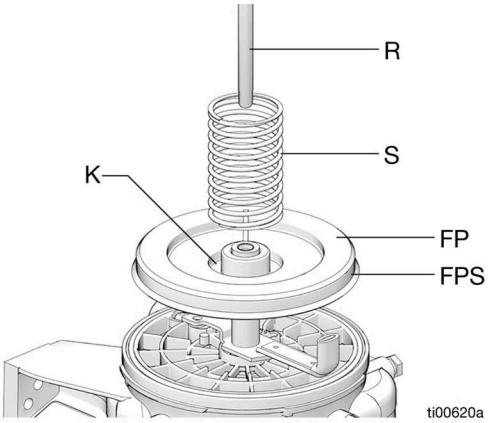


FIG. 17

Reservoir Installation (2 L Models)

1. Grease the new o-ring (3) (included in kit) and install in the ricer place groove (C) (FIG. 18).

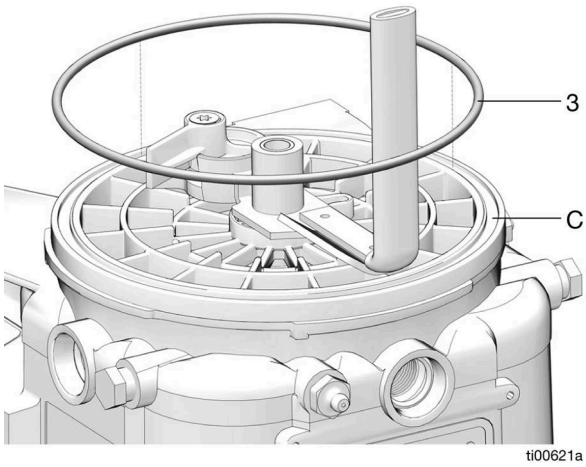


FIG. 18

2. Install the rod (R) into reservoir (A), and place on the pump with the vent (M) facing toward the rear left (N) of the G3 pump base. See FIG. 19 for the correct orientation of the parts for proper installation.

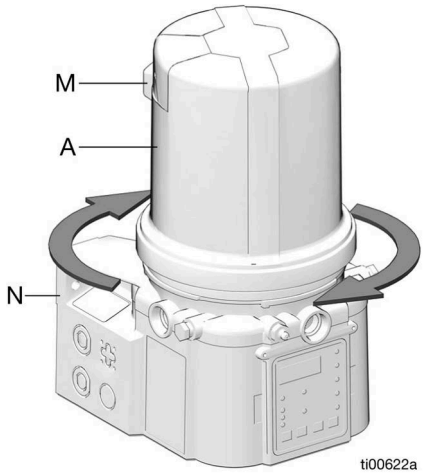


FIG. 19

3. Position the strap wrench over the reservoir and turn the reservoir clockwise one quarter of a turn until the reservoir does not turn any farther.

NOTICE

Be careful during installation of the reservoir that the o-ring is not pinched. If the o-ring is not correctly installed, grease could leak from the bottom of the G3 pump reservoir.

Reservoir Installation (4 L and Larger Models)

1. Grease the new o-ring (3) (included in kit) and install around the reservoir adapter (P) (FIG. 20).

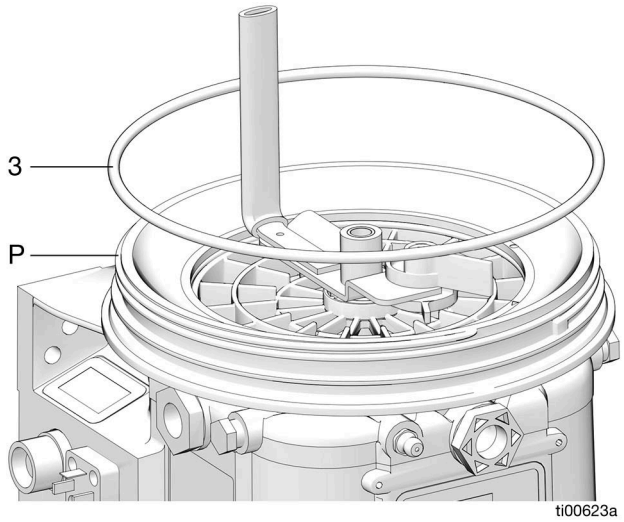


FIG. 20

Reference FIG. 21 for the instructions in this section.

2. Install rod (R) into reservoir (A), and place on the reservoir adapter (P)

   Position the strap wrench around the lower portion of the reservoir (A) and use it to turn the reservoir (A) clockwise to tighten it to the base.

   To ensure that the reservoir (A) is tightened sufficiently but not over tightened:

   a. Turn the reservoir (A) clockwise one full turn.

   b. Continue to turn the reservoir clockwise for a second turn, until the vent (M) faces the back of the G3 pump and the horizontal lines (S) that are molded into the reservoir align with the pump outlets (T) on each side of the pump base.

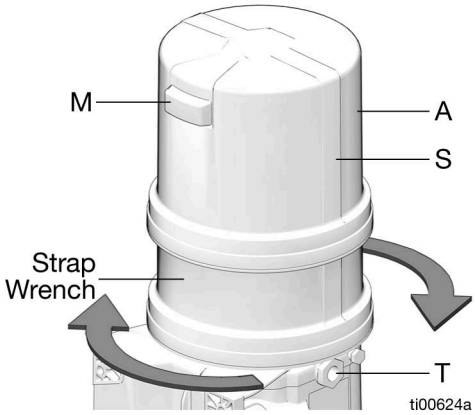


FIG. 21

Recycling and Disposal

End of Product Life

At the end of a product's useful life, recycle it in a responsible manner.

California Proposition 65

CALIFORNIA RESIDENTS

⚠ **WARNING:** Cancer and reproductive harm – www.P65warnings.ca.gov.

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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Graco reserves the right to make changes at any time without notice.

Original instructions. This manual contains English. MM 3A0535
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